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**WEATHERPRO & POWER PATIO  
AWNING  
REPLACEMENT INSTRUCTIONS**

**SERVICE INSTRUCTIONS**

**WEATHERPRO  
AND  
POWER PATIO  
AWNINGS**

**REVISION**  
Form No. 3307927.024 12/10  
(Replaces 3307927.016)  
(French 3308004.021)  
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LaGrange, IN 46761

## SAFETY INSTRUCTIONS

This manual has safety information and instructions to help users eliminate or reduce the risk of accidents and injuries.

### RECOGNIZE SAFETY INFORMATION



This is the safety alert symbol. It is used to alert you to personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

### UNDERSTAND SIGNAL WORDS

A signal word, when used with the safety alert symbol, will identify a safety hazard and its level of risk for personal injury. A signal word, without the safety alert symbol, will be used for property damage messages only.

**⚠ WARNING** WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

**⚠ CAUTION** CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

**NOTICE** NOTICE is used to address practices not related to personal injury.

## GENERAL INSTRUCTIONS

### **⚠ WARNING**

**These instructions must be read and understood before installation, adjustment, service or maintenance is performed. This hardware must be serviced by a Dometic, LLC Service Center or a qualified service technician. Modification of this product can be extremely hazardous and could result in personal injury or property damage.**

**Important:** Keep these instructions with owner's manual for future reference.

Tools and supplies required:

- Socket Wrench Set
- Screw Drivers
- Pop Rivet Tool
- Pliers
- Locking Pliers
- Electric Drill
- Step Ladder
- 3/16" Drill Bit
- End cap Guide
- 3/16 x 3/8" Pop Rivets
- 7/64" x 2-3/4" Cotter Pin
- Wood Block
- Nylon Wire Ties

The Fabric Roller Tube Assembly (referred to in the instructions as an FRTA) consists of a vinyl or acrylic Fabric, Roller Tube, Torsion Assembly, and Weather Shield.

These instructions will aid the service person to make repairs quickly and correctly. The repairs must be made by a qualified service person. Read instructions **ENTIRELY** before attempting to make repairs on the product.

Dometic, LLC reserves the right to modify appearances and specifications without notice.

### **⚠ WARNING**

**Read and follow all safety information and instructions to avoid possible injury or death.**

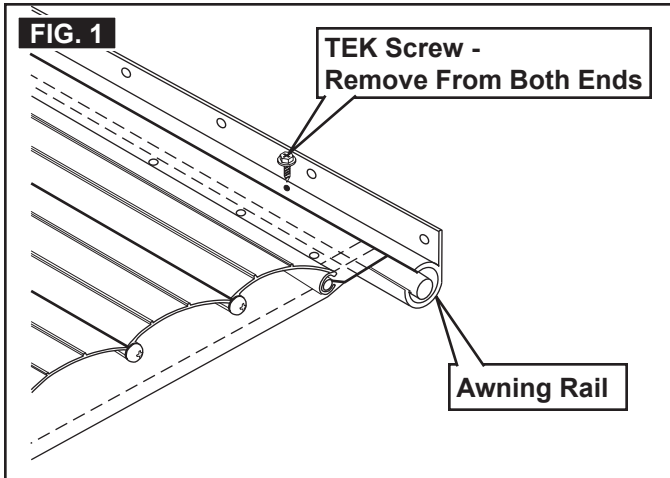
## PROCEDURE

### A. Removal Of Awning From Coach

1. In all instances of fabric, roller tube, or weather-shield replacement, it is necessary to unroll the fabric. A large, clean, and smooth work area is required to prevent damage to the fabric.

**Note:** If replacement of either torsion assembly is required, awning removal from the coach is not necessary. Proceed to Sections "B" and "C".

2. Remove the TEK screws securing the awning fabric at each end of the awning rail. See FIG. 1.



3. Extend or open the awning two revolutions of the FRTA. This will allow for removal of top brackets and the FRTA.
4. Pin the left hand torsion. See Section "B".

### NOTICE

The wind sensor wiring may be routed behind the right arm assembly on some installations. Take special care to avoid damage to wiring.

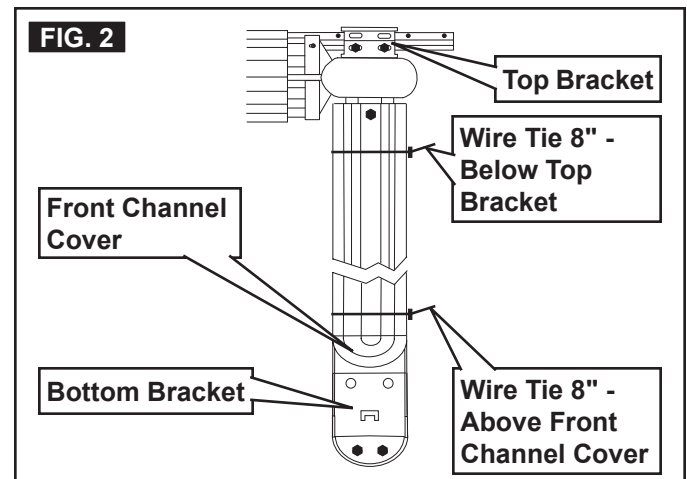
5. Disconnect the wire harness at the plug by the lower mounting bracket of the right arm assembly. In some installations, the harness may be run through a hole in the side wall of the coach. If the hole is sealed, use a screw driver to dig out the sealant. Be careful not to damage wires, the wall, or the harness assembly out of the coach.

### WARNING

**IMPACT OR PINCH HAZARD.** Use extreme care when handling arm assemblies. Arms are under tension from gas strut, and can be dangerous. Make sure at least two heavy nylon ties are wrapped around each arm assembly before removal. Otherwise, strut tension will attempt to extend the arm assembly quickly and unexpectedly. Failure to obey this warning could result in death, serious injury, or property damage.

6. The next two steps require three people. Loosen the lag screws holding the top and bottom mounting brackets to the coach. Push the arm assemblies closed, and wrap two heavy nylon wire ties around each arm assembly to prevent them from extending during removal of the FRTA. One should be 8" above the front channel cover, and the other 8" below the top mounting bracket. Do both arms assembly. See FIG. 2 (WeatherPro hardware shown).

**Note:** Bottom Brackets and Back Channel may be riveted.



7. While lifting the arm assemblies to support the FRTA, remove the lag screws holding the top and bottom mounting brackets to the side wall of the coach. Slowly walk the awning fabric out of the awning rail.
8. Lay the FRTA on a large clean work area to prevent damages.
9. Before removing the arm assemblies, you must read and understand Sections "B" and "C".

## B. Removal Of Left Hand Torsion

### **⚠ WARNING**

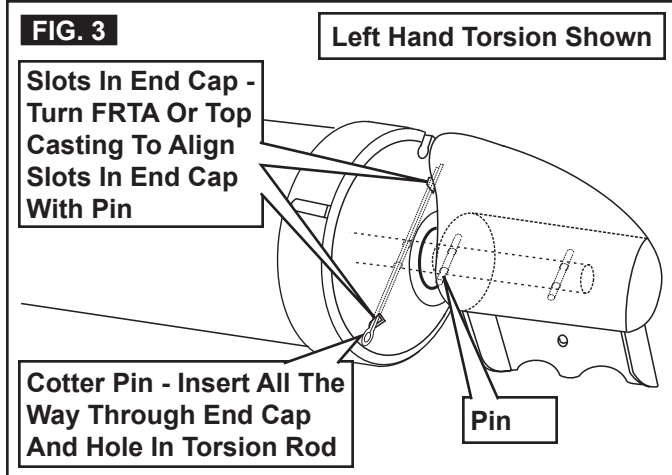
**IMPACT OR PINCH HAZARD.** Do not remove top casting from arm assembly until torsion (rod) is securely pinned at end cap. Otherwise, rapid casting spin off will occur.

Use extreme care when unwinding the top casting. If not controlled, rapid casting spin off will occur.

Spring tension will attempt to spin the hardware and/or fabric roller tube quickly and unexpectedly. Failure to obey these warnings could result in death, serious injury, or property damage.

**Note:** If the awning is installed on a coach, complete the following steps on a step ladder with the FRTA extended two turns from the awning rail.

1. Before the left arm assembly is removed, the torsion must be pinned to prevent uncontrolled unwinding of the spring.
  - a. Turn top casting or FRTA until the pin is parallel with the two slots in the end cap. See FIG. 3.

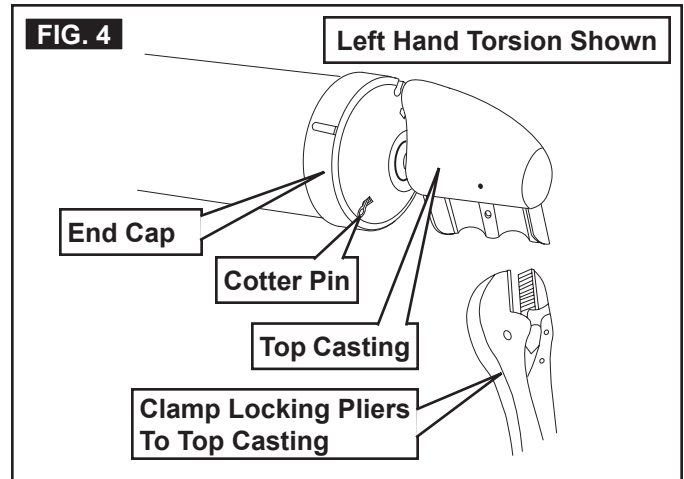


- b. To pin the left hand torsion, insert a 7/64" x 2-3/4" cotter pin through the end cap and torsion rod. Put a piece of tape over the head of the cotter pin to prevent it from dropping out. See FIG. 3.

**Note:** Do step "c" if FRTA is installed on coach. If not installed on coach, proceed to step "d".

- c. Insert a wood block between front and back channel to space the FRTA 2" to 3" from the coach. Push arm assembly closed. Wrap a nylon wire tie around arm to keep it from extending.

- d. Remove Hex Head 1/4-20 x 1/2" screw that attaches arm assembly to top casting. Lift casting out of arm assembly.
    - e. Clamp locking pliers firmly to the top casting. See FIG. 4.



- f. Keep a tight hold on the locking pliers while the cotter pin is pulled out of the end cap.
      - g. Slowly unwind the spring tension. Do not allow rapid spin off.
      - h. Use an electric drill with a 3/16" bit to remove the three pop rivets that secure the end cap to the roller tube. Pull the torsion out of the tube, and remove any burrs or rivet bodies.

## C. Removal Of Right Hand Drive Assembly

### **⚠ WARNING**

**IMPACT OR PINCH HAZARD.** Do not remove top casting from arm assembly until torsion (rod) is securely pinned at end cap. Otherwise, rapid casting spin off will occur. Spring tension will attempt to spin the hardware and/or fabric roller tube quickly and unexpectedly. Failure to obey this warning could result in death, serious injury, or property damage.

**Note:** If the awning is installed on a coach, complete the following steps on a step ladder with the FRTA extended two turns from the awning rail.

1. When the removal of the Right Hand Drive Assembly is necessary, the left hand must be pinned, or the FRTA will unroll and the spring tension will be lost. See Section "B", Step 1, paragraphs "a" and "b".

**Note:** Do step 2 if FRTA is installed on coach. If not installed on coach, proceed to step 3.

2. Insert a wood block, between front and back channel to space the FRTA 2" - 3" from the coach. Push arm assembly closed. Wrap a nylon wire tie around arm to keep it from extending.
3. Remove Hex Head 1/4-20 x 1/2" screw that attaches arm assembly to top casting. Remove arm assembly.
4. Use the electric drill with a 3/16" bit to remove the three pop rivets that secure the end cap to the roller tube. Pull the drive assembly out of the tube and remove any burrs or rivet bodies.

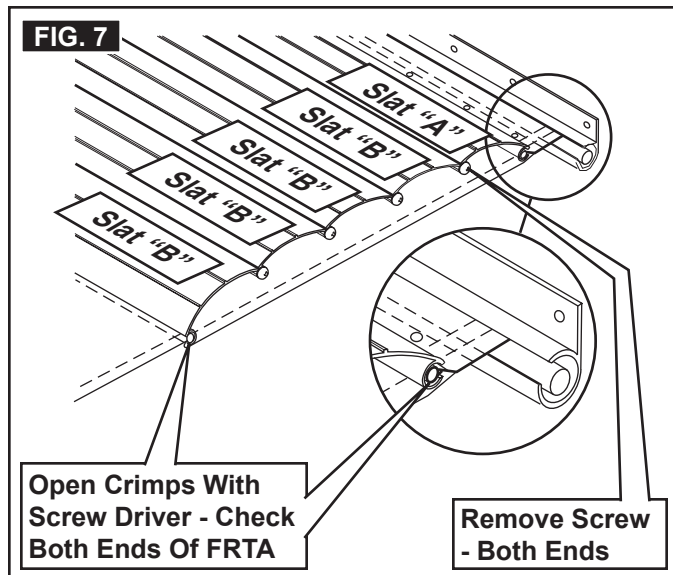
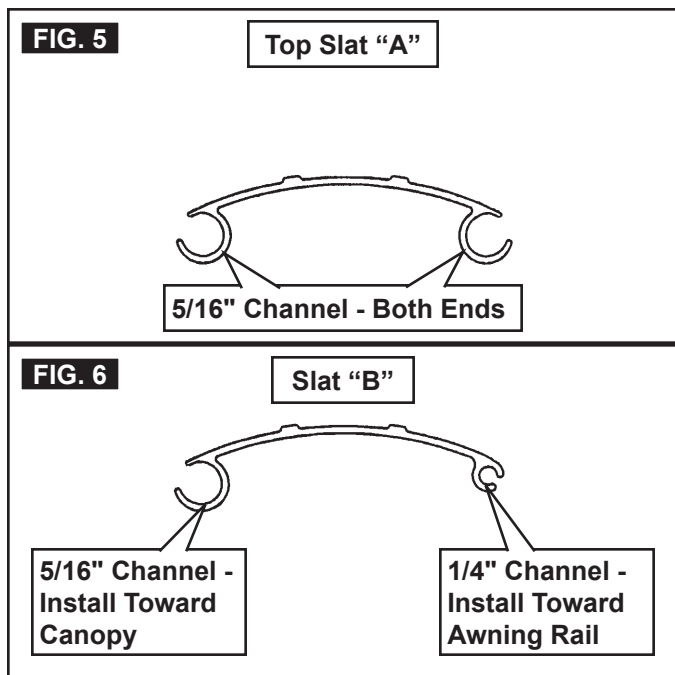
#### D. Removal Of Fabric From Roller Tube

1. Remove awning from coach. See Section "A".
2. Remove both torsions. See Sections "B" and "C" for torsion and drive assembly removal.
3. Roll the awning completely out on a clean smooth surface.
4. With the awning laying flat, slide the roller tube out from fabric.

**Note:** Use needle nose pliers to remove the poly rope from the groove(s) of the roller tube before removing fabric.

#### E. WeatherShield Assembly Removal And Replacement (On WeatherPro Only)

1. Remove the two screws (one on each side) that lock slat "A" to first slat "B". See FIG. 5, 6, and 7.



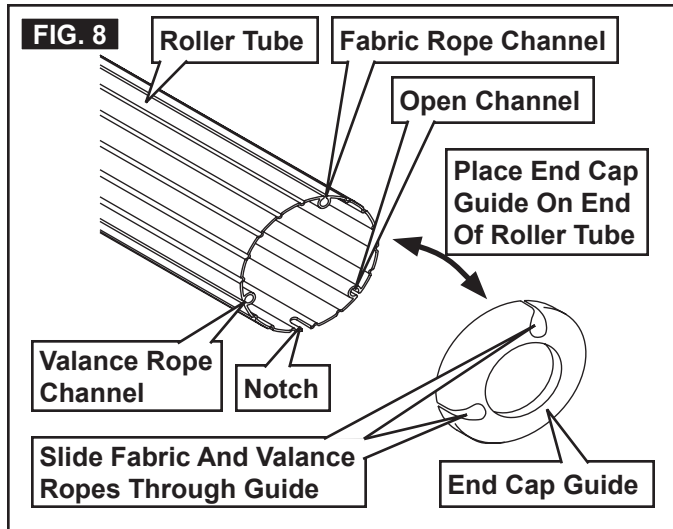
2. Use a screw driver to spread open the crimp in the slats. Slide the top slat "A" off slat assembly and fabric. Keep for reinstall in Step 5 (unless new slat assembly is being installed). Hold "B" (toward canopy) to allow the slat assembly to slide off fabric. If new fabric is being installed, lay new fabric over old one. Check for correct size and color.
3. The new replacement weathershield/fabric will be installed as shown in FIG. 7. Place connected slat assembly on top of fabric.

**Note:** Make sure the 1/4" groove on all "B" slats are toward awning rail. New weathershield assemblies are shipped with 6 slats, but the first slat is not needed. If a new weathershield assembly is being installed, remove the first slat "B".

4. Use a small file and round ends of the groove in the 5/16" end of first slat "B" and "A". See FIG. 5, 6, and 7.
5. Slide first slat "B" of the connected weathershield assembly (if slat "A" was removed in Step 1, it should be replaced) onto the poly rope in fabric located approximately 12" from awning rail end; and, at the same time, slide slat "A" onto poly rope located 1" from awning rail. See FIG. 5, 6 & 7. Slide the weathershield onto both ropes at the same rate.
6. Crimp both channels of the weathershield about 3" from end of slats onto poly rope to secure the weathershield assembly to the fabric. It is only necessary to crimp weathershield on one end of the FRTA. See FIG. 7.

## F. Installing Fabric On Roller Tube

1. Unfold the new fabric and lay it on top of the existing fabric in the exact same position. Be sure the new fabric is the correct size and color. If roller tube is being replaced, make sure it is the correct length, then position it with the notch located as shown in FIG. 8.



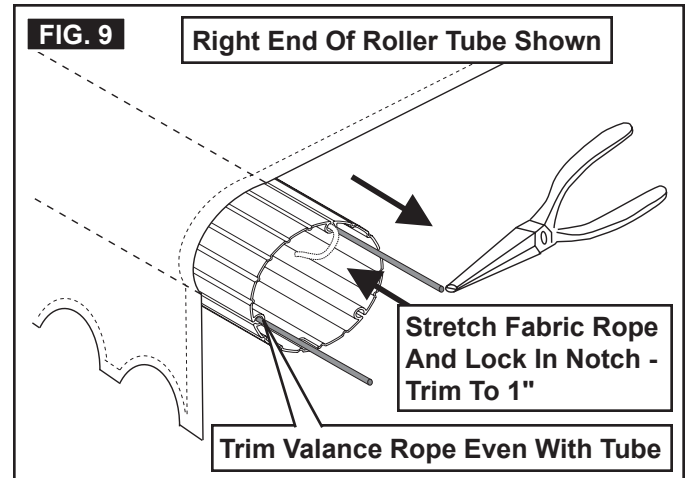
2. Dometic requires the use of the end cap guide to prevent damage to the fabric when replacing the fabric/roller tube. Place the end cap guide (supplied with the replacement fabric/roller tube) on the end of the roller tube. The locating tab on the end cap guide is placed in the open (unused) channel of the roller tube. See FIG. 8.

**Note:** When changing the fabric, it is vital that the same groove(s) are used. This eliminates the need to drill new holes. On a new roller tube, the fabric rope is placed in the channel with the notch in its edge (opposite the notch in the roller tube). See FIG. 8.

3. Guide the roller tube over the poly rope(s) of the fabric. Be careful not to damage the roller tube or the fabric.
4. Center the fabric on the roller tube and hand-roll the entire assembly in the same direction as the original fabric.
5. See Section "E" for WeatherShield replacement Steps 3 to 6, and Section "G" replacing torsion assemblies.

## G. Replacing Torsion Assemblies

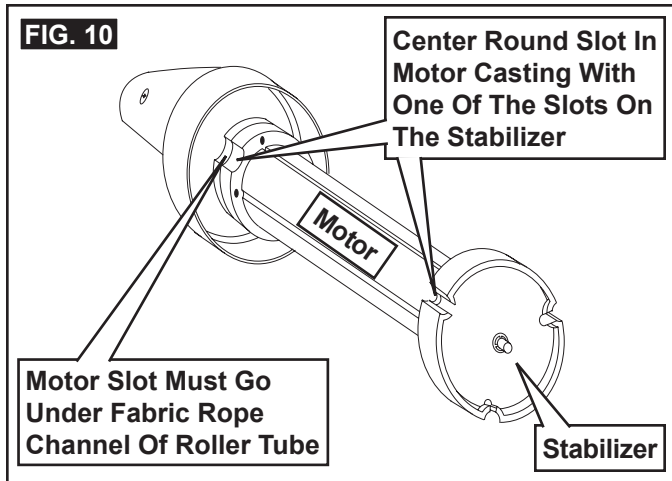
1. The poly ropes must be properly trimmed and secured to the roller tube; as it can interfere with the torsion and allow shifting of the fabric.
2. Use pliers to pull the fabric rope toward the center of the roller tube and push it back to lock it in the notch on the edge of the channel. Cut fabric rope 1" below channel. See FIG. 9.



3. Trim valance rope even with the edge of roller tube. See FIG. 9.
4. Install left hand torsion
  - a. Slide left hand torsion assembly into left end of roller tube. Turn end cap until locating tabs are in place in the notch on the roller tube. This should align the open channel with the slot in the end cap.
  - b. Secure the end cap to the roller tube using three (3/16" x 3/8") pop rivets. See Section "H" winding left hand torsion.
5. Install right hand drive torsion
  - a. New right hand drive torsions are shipped with the top casting and the stabilizer positioned for installation. If the torsion has been pre-installed it must be aligned before it is put into the FRTA.
  - b. Apply DC power directly to the drive assembly with the emergency harness or the control box. Allow the stabilizer to turn until one of the stabilizer slots is centered on the round slot in the motor casting. See FIG. 10.
  - c. When motor drive assembly is properly aligned as indicated in step "b", it is placed in the roller tube with the motor slot positioned under the channel with the fabric rope. See FIG. 9.
  - d. Turn the end cap on the motor drive torsion until the rivet hole match the holes in the roller tube. Install the three 3/16" x 3/8" pop rivets to secure the torsion to the roller tube.

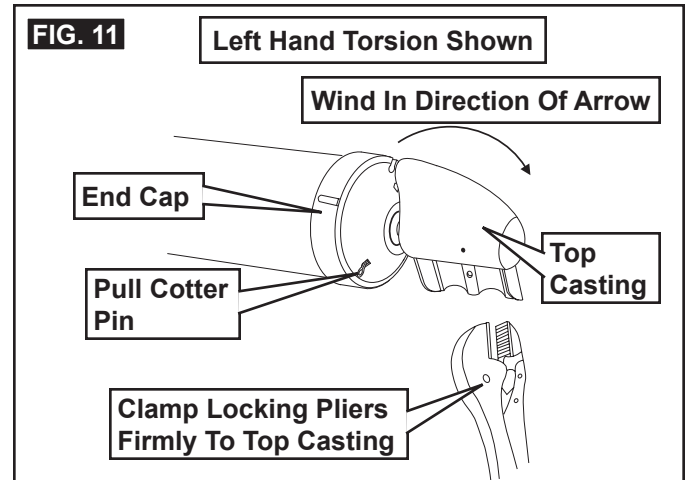


**Note:** FRTA's installed on the coach will require the motor drive torsion assembly to be operated until the top casting will slip easily into the arm assembly. This will align the top casting of the motor drive to the left hand top castings. The left and right arms must be parallel to each other.



2. Start with the locking pliers in the six o'clock position. Keep a firm hold onto the locking pliers. Slowly wind in the direction of the arrow nine complete turns. See FIG. 11.

**Note:** If Awning is fully extended, wind the spring tension a total of (17) turns.



3. Turn top casting or FRTA until the pin is parallel with the two slots in the end cap. See FIG. 12.

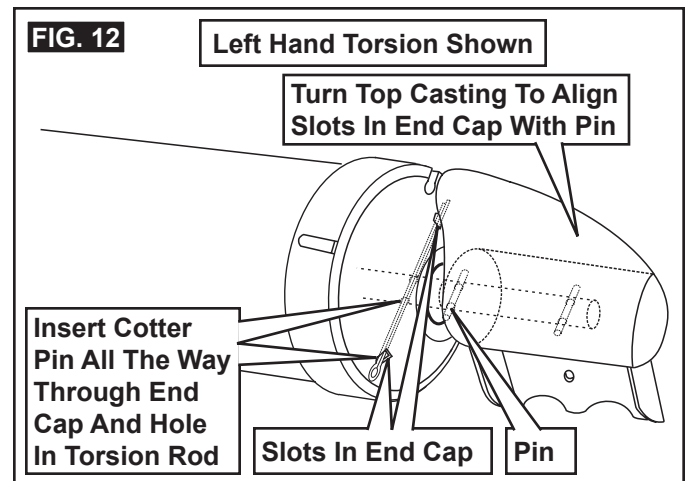
## H. Winding Left Hand Torsion Assembly

### **⚠ WARNING**

**IMPACT OR PINCH HAZARD.** Use extreme care when winding the top casting. If not controlled, rapid casting spin off will occur. Spring tension will attempt to spin the top casting and/or fabric roller tube quickly and unexpectedly. Failure to obey this warning could result in death, serious injury, or property damage.

**Note:** If the awning is installed on a coach, complete the following steps on a step ladder with the FRTA extended two turns from the awning rail.

1. Clamp the locking pliers tightly to the top casting on the left hand torsion assembly.



4. Insert a 7/64" x 2-3/4" cotter pin through the end cap and torsion rod. Put a piece of tape over the head of the cotter pin to prevent it from dropping out. See FIG. 12.
5. Remove locking pliers from top casting and insert into arm assembly. Replace Hex Head 1/4-20 x 1/2" screw and tighten.

**Note:** If awning is not installed on coach. Install per the WeatherPro or Power Patio Awning installation instructions.

6. Remove 2-3/4" cotter pin and check operation of the awning.